COTTON CHATS

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Reducing Slough-Offs on Your High Speed Looms

Every mill man wants an early tip on any new kinks that change mill practice whether these kinks be better machines, new devices for old machines or a new way of doing what had become a routine job.

There are many interesting developments in weaving at the present time.

For instance:

Have you heard that a new filling bobbin makes old bobbins as obsolete on high speed looms as the old looms your mill is discarding?

Or that shuttle requirements are different in both eye and spring?

That when buying reeds you must insist upon a more definite uniformity in dents and ribs?

That this same uniformity must be preserved if you make a change of reeds for any reason?

There are new greasing problems that should be of interest to overseers and oilers.

Loomfixers and weavers will be glad to learn about a new trick in the care of pickers.

Problems of the High Speed Loom

The high speed loom brings to the practical men of the industry new problems in weaving.

They are not of a nature to hinder the adoption of the high speed loom.

They are the problems that come with learning the use of any new tool; of running the looms and adapting mill practice to get the best possible results from the better looms the mill has installed.

Some of these problems we solved. They led to the improvements you saw on our X Model loom at Greenville.

Some were solved by the mills. These have brought changes in mill practice.

Some in which we joined with the mills in getting results should be of interest to other mill men.

Troublesome Slough-offs

Ordinary slough-offs are due to poorly conditioned yarn, soft bobbins or an unsuitable spinning traverse.

They are the mill's own problem, the remedy being in better spinning or proper yarn conditioning.

With the high speed loom, slough-offs become a new problem.

An inevitable result of increasing the loom speed is a natural tendency to increase slough-offs.

This was one of the primary problems of building a high speed loom. We solved it in designing the X Model by changes in the pick motion, by finding a way to ease

up the impact of the shuttle in the shuttle box and by improvements that modified the severity of some of the other loom motions.

But there were slough-offs on the old looms just before a bobbin change, especially on looms with feeler.

This type of slough-off was more frequent on high speed looms; but it was evident the fault was not in the loom and only partly due to high speed.

The cure was found only when we discovered how to make a bobbin that prevented slough-offs of this nature.

The New Bobbin

This new anti-slough bobbin is now on the market.

The mills that have it are enthusiastic about the improvement it has wrought in their weaving.

It cures this type of slough-off.

It is good on high speed looms.

It is good on our older looms.

It makes all other bobbins obsolete on looms with a feeler—and is desirable on any loom.

Reeds for High Speed Looms

Reeds used on your high speed looms must have ribs of the same diameter and dents of the same width as the reeds you send us to use in lining up the loom.

Dents must be central in the ribs.

In starting a new loom, the reed, lay and back box plates are lined up. With another reed used when a warp is changed, a variation in width of the dent or in the distance from the face of the dents to face of the rib throws out the alignment.

This will shorten the life of the shuttle and often cause serious weaving troubles.

When ordering new reeds and in replacing reeds on the looms, be sure to preserve this uniformity.

Shuttles Too

Shuttle requirements in both spring and eye, and on some weaves in other particulars, are different.

Since the differences vary with the weave and mill conditions, the shuttle to buy should be taken up with those who know requirements for high speed looms.

Draper men know and can help you.

Oiling and Greasing

With the better lubricating system we installed on our high speed looms, more care is needed in selecting oils and grease — especially grease for alemite fittings.

We cannot recommend the brand of oil and grease to use, but the grease must be of such nature that it will not harden and clog grease grooves in the bearings.

Loom Pickers and Broken Filling

Many cases of broken filling on high speed looms have been traced to a rough top surface on the picker.

Smoothing the top of the picker occasionally will prevent much of this broken filling.

Some fixers preserve this smoothed surface with a coat of shellac.

The Moral of This Story

Every advance in the mechanics of the textile art brings new problems. It is our job to help you solve them — to adapt our machines to your needs.

If our solutions do not anticipate your troubles, you can come to us with the assurance of our assistance.